

# 10/538,024-362669-EIC SEARCH

## INVENTOR SEARCH

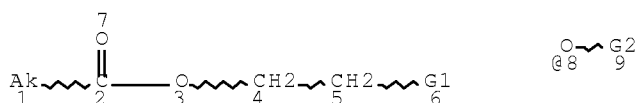
=> d his l43

(FILE 'HCAPLUS' ENTERED AT 15:59:13 ON 29 APR 2011)

L43 3 S L24 OR L42  
SAV TEMP L43 HAM024HCPIN/A

=> d que l43

L3 STR



VAR G1=OH/8  
VAR G2=ME/ET/N-PR/N-BU  
NODE ATTRIBUTES:  
CONNECT IS E1 RC AT 1  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS M23-X35 C AT 1

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L7 28 SEA FILE=REGISTRY SSS FUL L3  
L9 13 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L7 AND  
PMS/CI  
L10 15 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L7 NOT L9  
L11 11 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L10 AND 3/O  
L13 22 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L11  
L15 27 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON ("BORNEMANN,  
STEFFEN"/AU OR "JOERRES, VOLKER"/AU OR "VOGES,  
MICHAEL"/AU)  
L16 QUE SPE=ON ABB=ON PLU=ON BORNEMANN S?/AU  
L17 QUE SPE=ON ABB=ON PLU=ON JOERRES V?/AU  
L18 QUE SPE=ON ABB=ON PLU=ON VOGES M?/AU  
L19 QUE SPE=ON ABB=ON PLU=ON L16 AND L17 AND L18  
L20 1 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L16 AND L17  
AND L18  
L21 20 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON "COROVIN GMBH  
GERMANY"/PA  
L22 2 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON ((L15 OR L16  
OR L17 OR L18 OR L19)) AND L21  
L23 2 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L13 AND ((L15  
OR L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22))  
L24 3 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L22 OR L23)  
L29 QUE SPE=ON ABB=ON PLU=ON MIX? OR MIXT# OR MIXTURE?  
OR BLEND? OR ADMIX? OR COMMIX?  
L30 QUE SPE=ON ABB=ON PLU=ON IMMIX? OR INTERMIX? OR DOP  
E# OR DOPING# OR DOPANT# OR IMPREGNAT? OR COMPOSIT? OR  
COMP#  
L31 QUE SPE=ON ABB=ON PLU=ON COMPSN# OR FORMULAT? OR CO

## 10/538,024-362669-EIC SEARCH

L35 MBINAT? OR INTERSPER? OR SUSPEN? OR DISPERS? OR EMULS?  
QUE SPE=ON ABB=ON PLU=ON ADDITIVE? OR RETARDER? OR  
IMPROVER? OR STABILIZER? OR STABILISER? OR INHIBITOR? O  
R MODIFIER? OR ACTIVATOR? OR DEACTIVATOR? OR APPRECIATO  
R? OR BOOSTER? OR SUPPRESSOR? OR SCAVENGER? OR ENHANCER  
? OR ACCELERAT!R? OR ACCELERANT? OR AGENT? OR PROMOT!R?

L36 QUE SPE=ON ABB=ON PLU=ON MELT?

L37 QUE SPE=ON ABB=ON PLU=ON L36(3A)L35

L42 2 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L24 AND ((L29  
OR L30 OR L31) AND (L35 OR L36 OR L37))

L43 3 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L24 OR L42

# 10/538,024-362669-EIC SEARCH

## INVENTOR SEARCH RESULTS

=> d 143 1-3 ibib ed abs hitstr hitind re

L43 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1564956 HCAPLUS Full-text

DOCUMENT NUMBER: 152:77029

TITLE: Production of hydrophilic polyolefin fiber compositions

INVENTOR(S): Bornemann, Steffen

PATENT ASSIGNEE(S): Fiberweb Corovin GmbH, Germany

SOURCE: Ger., 9pp.  
CODEN: GWXXAW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10257730	B4	20091217	DE 2002-10257730	2002 1211
DE 10257730	A1	20040708		
WO 2004052985	A1	20040624	WO 2003-EP13826	2003 1206
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003292204	A1	20040630	AU 2003-292204	2003 1206
AU 2003292204	B2	20070517		
EP 1581590	A1	20051005	EP 2003-767762	2003 1206
EP 1581590	B1	20060419		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1723240	A	20060118	CN 2003-80105607	2003 1206
CN 100497460	C	20090610		
JP 2006509897	T	20060323	JP 2005-502314	2003 1206
JP 4667239	B2	20110406		
AT 323740	T	20060515	AT 2003-767762	

# 10/538,024-362669-EIC SEARCH

				2003 1206
ES 2263032	T3	20061201	ES 2003-767762	
				2003 1206
MX 2005006208	A	20050819	MX 2005-6208	
				2005 0610
JP 2008255365	A	20081023	JP 2008-166631	
				2008 0625
PRIORITY APPLN. INFO.:			DE 2002-10257730	A 2002 1211
			DE 2003-10307867	A 2003 0225
			JP 2005-502314	A3 2003 1206
			WO 2003-EP13826	W 2003 1206

ED Entered STN: 17 Dec 2009

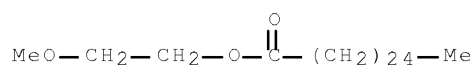
AB The title ~~compos.~~, useful in fibers, filaments, and fleeces or their products with permanent hydrophilicity, comprise polyolefins containing 0.5 - 10 weight% ~~melt additive~~ such as fatty acid esters RC(:O)OCH<sub>2</sub>CH<sub>2</sub>OR' (R = C<sub>23</sub>-35 alkyl and R' = Me, Et, n-Pr or n-Bu). A spun fleece prepared from a blend of polypropene fibers and 2% 2-methoxyethyl hexacosanoate had surface tension 72.5 and 65.5 mN/m, resp., before and after 30 min immersion in water.

IT 709654-78-4

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(production of hydrophilic polyolefin fiber ~~compos.~~)

RN 709654-78-4 HCAPLUS

CN Hexacosanoic acid, 2-methoxyethyl ester (CA INDEX NAME)



IPCI C08L0023-02 [I,A]; C08L0053-00 [I,A]; C08K0005-103 [I,A];  
D01F0001-10 [I,A]; D01F0006-04 [I,A]; D04H0001-42 [I,A];  
D04H0003-00 [I,A]

IPCR C08L0023-00 [I,C]; C08L0023-02 [I,A]; C08K0005-00 [I,C];  
C08K0005-101 [I,A]; C08K0005-103 [I,A]; C08L0053-00 [I,C];  
C08L0053-00 [I,A]; D01F0001-10 [I,C]; D01F0001-10 [I,A];  
D01F0006-04 [I,C]; D01F0006-04 [I,A]; D04H0001-42 [I,C];  
D04H0001-42 [I,A]; D04H0003-00 [I,C]; D04H0003-00 [I,A]

CC 40-10 (Textiles and Fibers)

ST polyolefin fleece ~~compos~~ hydrophilic; polypropene fleece  
~~compos~~ hydrophilic; fatty acid ester fleece hydrophilic;  
methoxyethyl hexacosanoate polyolefin fleece hydrophilic

IT Fatty acids

## 10/538,024-362669-EIC SEARCH

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(esters; production of hydrophilic polyolefin fiber compns  
.)

IT Polyolefin fibers

RL: PEP (Physical, engineering or chemical process); TEM  
(Technical or engineered material use); PROC (Process); USES  
(Uses)  
(ethylene, nonwoven; production of hydrophilic polyolefin fiber  
compns.)

IT Polypropene fibers

RL: PEP (Physical, engineering or chemical process); TEM  
(Technical or engineered material use); PROC (Process); USES  
(Uses)  
(fabrics, nonwoven; production of hydrophilic polyolefin fiber  
compns.)

IT Polyolefin fibers

RL: PRP (Properties); TEM (Technical or engineered material use);  
USES (Uses)  
(nonwoven; production of hydrophilic polyolefin fiber  
compns.)

IT 13463-67-7, Titania, uses 1200829-36-2, Remafin RCLAP

RL: MOA (Modifier or additive use); USES (Uses)  
(production of hydrophilic polyolefin fiber compns.)

IT 709654-78-4

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(production of hydrophilic polyolefin fiber compns.)

IT 25085-53-4, Isotactic polypropylene

RL: PRP (Properties); TEM (Technical or engineered material use);  
USES (Uses)  
(production of hydrophilic polyolefin fiber compns.)

IT 9002-88-4, Polyethylene

RL: TEM (Technical or engineered material use); USES (Uses)  
(production of hydrophilic polyolefin fiber compns.)

RE CITED REFERENCES

- (1) Anon; EP 0605831 A1 HCAPLUS
- (2) Anon; US 5634971 A HCAPLUS
- (3) Anon; US 6153701 A HCAPLUS
- (4) Anon; Ullmann's Encycl of Ind Chem, 5th Ed VA20, PS479

L43 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1073087 HCAPLUS Full-text

DOCUMENT NUMBER: 142:39978

TITLE: Method and apparatus for production of  
spun-bonded fleeces from filaments

INVENTOR(S): Roettger, Henning; Sodemann, Ralf; Voges,  
Michael

PATENT ASSIGNEE(S): Corovin GmbH, Germany

SOURCE: Ger. Offen., 18 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 10322460	A1	20041216	DE 2003-10322460	2003 0516

# 10/538,024-362669-EIC SEARCH

DE 10322460 B4 20070208  
DE 20308475 U1 20031023 DE 2003-20308475 2003  
0516  
WO 2004101869 A1 20041125 WO 2004-EP5056 2004  
0512  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,  
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,  
ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,  
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL,  
PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,  
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH,  
CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,  
MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI,  
CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
EP 1629142 A1 20060301 EP 2004-732294 2004  
0512  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,  
MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
JP 2006526083 T 20061116 JP 2006-508173 2004  
0512  
JP 4430665 B2 20100310  
US 20070090555 A1 20070426 US 2005-556750 2005  
1114  
PRIORITY APPLN. INFO.: DE 2003-10322460 A 2003  
0516  
WO 2004-EP5056 W 2004  
0512

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 16 Dec 2004

AB Which converts split fibers to spun-bonded fabrics, thermoplastic fibers are spun, passed through a nozzle that generates a hydrostatic pressure within the fiber which is greater than the surrounding gas pressure so that the fibers are split into many filaments, and the filaments are tempered and/or drawn to give distinguishable diams. and lengths. The process is exemplified for spun-bonded polypropene fibers and drawings illustrating the process and apparatus are included. IPCI D04H0003-02 [I,A]; D04H0003-16 [I,A]; D04H0013-00 [I,A];

D01D0005-42 [I,A]; D01D0005-00 [I,C\*]

IPCR D04H0003-02 [I,C]; D04H0003-02 [I,A]; D01D0005-00 [I,C];  
D01D0005-08 [I,C\*]; D01D0005-098 [I,A]; D01D0005-42 [I,A];  
D04H0003-08 [I,C\*]; D04H0003-10 [I,A]; D04H0003-16 [I,C];  
D04H0003-16 [I,A]; D04H0013-00 [I,C]; D04H0013-00 [I,A]

CC 40-2 (Textiles and Fibers)

Section cross-reference(s): 47

## RE CITED REFERENCES

- (1) Anon; WO 0100909 A1
- (2) Anon; DE 19962360 A1 HCAPLUS
- (3) Anon; DE 3645330 C2
- (4) Anon; DE 4014414 C2

# 10/538,024-362669-EIC SEARCH

(5) Anon; DE 4032523 C2

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE  
THIS RECORD (3 CITINGS)

L43 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2011 ACS on STN  
ACCESSION NUMBER: 2004:515587 HCAPLUS Full-text  
DOCUMENT NUMBER: 141:72930  
TITLE: Production of hydrophilic polyolefin fiber  
compositions  
INVENTOR(S): Bornemann, Steffen; Joerres,  
Volker; Voges, Michael  
PATENT ASSIGNEE(S): Corovin GmbH, Germany  
SOURCE: PCT Int. Appl., 28 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052985	A1	20040624	WO 2003-EP13826	2003 1206
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10257730	B4	20091217	DE 2002-10257730	2002 1211
DE 10257730	A1	20040708		
DE 10307867	A1	20040916	DE 2003-10307867	2003 0225
AU 2003292204	A1	20040630	AU 2003-292204	2003 1206
AU 2003292204	B2	20070517		
EP 1581590	A1	20051005	EP 2003-767762	2003 1206
EP 1581590	B1	20060419		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006509897	T	20060323	JP 2005-502314	2003 1206
JP 4667239	B2	20110406		
MX 2005006208	A	20050819	MX 2005-6208	

# 10/538,024-362669-EIC SEARCH

				2005
				0610
US 20070167549	A1	20070719	US 2006-538024	
				2006
				1121
PRIORITY APPLN. INFO.:			DE 2002-10257730	A
				2002
				1211
			DE 2003-10307867	A
				2003
				0225
			WO 2003-EP13826	W
				2003
				1206

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 27 Jun 2004

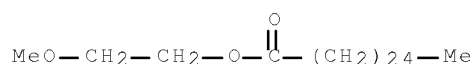
AB The title ~~comps.~~, useful in fibers, filaments, and fleeces or their products with permanent hydrophilicity, contain polyolefins with surfaces activated by silicones or quaternary ammonium compds., and fatty acid esters of specified ~~compn~~. A spun fleece prepared from a ~~blend~~ of polypropene fibers and 2% 2-methoxyethyl hexacosanoate had surface tension 72.5 and 65.5 mN/m, resp., before and after 30 min immersion in water.

IT 709654-78-4

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(production of hydrophilic polyolefin fiber ~~comps.~~)

RN 709654-78-4 HCAPLUS

CN Hexacosanoic acid, 2-methoxyethyl ester (CA INDEX NAME)



IPCI C08L0023-00 [ICM,7]; D06M0013-46 [ICS,7]; D06M0013-50 [ICS,7];  
C08K0005-10 [ICS,7]

IPCR C08K0005-00 [I,C\*]; C08K0005-101 [I,A]; D06M0013-00 [I,C\*];  
D06M0013-46 [I,A]; D06M0013-50 [I,A]; D06M0015-37 [I,C\*];  
D06M0015-643 [I,A]

CC 40-10 (Textiles and Fibers)

ST polyolefin fleece ~~compn~~ hydrophilic; polypropene fleece  
~~compn~~ hydrophilic; fatty acid ester fleece hydrophilic;  
methoxyethyl hexacosanoate polyolefin fleece hydrophilic; silicone  
activator polyolefin fleece hydrophilic; quaternary  
ammonium compd activator polyolefin fiber

IT Polysiloxanes, uses

Quaternary ammonium compounds, uses

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(activating agents; production of hydrophilic polyolefin  
fiber ~~comps.~~)

IT Fatty acids, uses

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(esters; production of hydrophilic polyolefin fiber ~~comps~~  
.)

IT Polypropene fibers, uses

RL: PRP (Properties); TEM (Technical or engineered material use);



## 10/538,024-362669-EIC SEARCH

USES (Uses)  
(fabrics, nonwoven; production of hydrophilic polyolefin fiber  
comps.)

IT Polyolefin fibers

RL: PRP (Properties); TEM (Technical or engineered material use);  
USES (Uses)

(nonwoven; production of hydrophilic polyolefin fiber  
comps.)

IT 102-71-6D, Triethanolamine, fatty acid esters, quaternized

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(activating agents; production of hydrophilic polyolefin  
fiber comps.)

IT 709654-78-4

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)  
(production of hydrophilic polyolefin fiber comps.)

RE CITED REFERENCES

(1) Anon; US 20010008965 A1

(2) Anon; US 20020019184 A1 HCAPLUS

(3) Anon; US 6008145 A HCAPLUS

(4) Anon; US 6211101 B1 HCAPLUS

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE  
THIS RECORD (4 CITINGS)

# 10/538,024-362669-EIC SEARCH

## STRUCTURE SEARCH

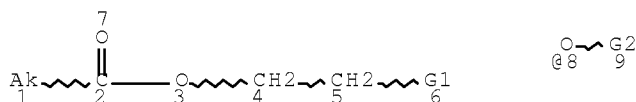
=> d his 140

(FILE 'HCAPLUS' ENTERED AT 15:59:13 ON 29 APR 2011)

L40 17 S L28 OR L32-L34 OR L38 OR L39

=> d que 140

L3 STR



VAR G1=OH/8

VAR G2=ME/ET/N-PR/N-BU

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 1

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M23-X35 C AT 1

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L7 28 SEA FILE=REGISTRY SSS FUL L3

L9 13 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L7 AND  
PMS/CI

L10 15 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L7 NOT L9

L11 11 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L10 AND 3/O

L13 22 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L11

L15 27 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON ("BORNEMANN,  
STEFFEN"/AU OR "JOERRES, VOLKER"/AU OR "VOGES,  
MICHAEL"/AU)

L16 QUE SPE=ON ABB=ON PLU=ON BORNEMANN S?/AU

L17 QUE SPE=ON ABB=ON PLU=ON JOERRES V?/AU

L18 QUE SPE=ON ABB=ON PLU=ON VOGES M?/AU

L19 QUE SPE=ON ABB=ON PLU=ON L16 AND L17 AND L18

L20 1 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L16 AND L17  
AND L18

L21 20 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON "COROVIN GMBH  
GERMANY"/PA

L22 2 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON ((L15 OR L16  
OR L17 OR L18 OR L19)) AND L21

L23 2 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L13 AND ((L15  
OR L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22))

L24 3 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L22 OR L23)

L25 20 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L13 NOT L24

L26 QUE SPE=ON ABB=ON PLU=ON PY=<2003 NOT P/DT

L27 QUE SPE=ON ABB=ON PLU=ON (PY=<2003 OR PRY=<2003 OR  
AY=<2003 OR MY=<2003 OR REVIEW/DT) AND P/DT

L28 17 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L25 AND (L26  
OR L27)

L29 QUE SPE=ON ABB=ON PLU=ON MIX? OR MIXT# OR MIXTURE?

## 10/538,024-362669-EIC SEARCH

OR BLEND? OR ADMIX? OR COMMIX?

L30 QUE SPE=ON ABB=ON PLU=ON IMMIX? OR INTERMIX? OR DOP  
E# OR DOPING# OR DOPANT# OR IMPREGNAT? OR COMPOSIT? OR  
COMP#

L31 QUE SPE=ON ABB=ON PLU=ON COMPSN# OR FORMULAT? OR CO  
MBINAT? OR INTERSPER? OR SUSPEN? OR DISPERS? OR EMULS?

L32 15 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L28 AND ((L29  
OR L30 OR L31))

L33 8 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L28 AND  
?POLYM?

L34 16 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L32 OR L33

L35 QUE SPE=ON ABB=ON PLU=ON ADDITIVE? OR RETARDER? OR  
IMPROVER? OR STABILIZER? OR STABILISER? OR INHIBITOR? O  
R MODIFIER? OR ACTIVATOR? OR DEACTIVATOR? OR APPRECIATO  
R? OR BOOSTER? OR SUPPRESSOR? OR SCAVENGER? OR ENHANCER  
? OR ACCELERAT!R? OR ACCELERANT? OR AGENT? OR PROMOT!R?

L36 QUE SPE=ON ABB=ON PLU=ON MELT?

L37 QUE SPE=ON ABB=ON PLU=ON L36(3A)L35

L38 1 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L28 AND L37

L39 1 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L38 AND (L35  
OR L36)

L40 17 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L28 OR (L32  
OR L33 OR L34) OR L38 OR L39

# 10/538,024-362669-EIC SEARCH

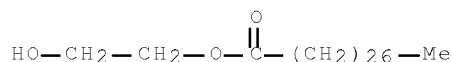
## STRUCTURE SEARCH RESULTS

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L40 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 2005:673715 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:148307  
 TITLE: Use alkoxyated waxes as adjuvants in  
 pesticidal formulations  
 INVENTOR(S): Heinrichs, Annette; Besold, Bernhard  
 PATENT ASSIGNEE(S): Germany  
 SOURCE: Ger. Offen., 9 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 10361497	A1	20050728	DE 2003-10361497	2003 1223
			<--	
PRIORITY APPLN. INFO.:			DE 2003-10361497	2003 1223
			<--	

ED Entered STN: 31 Jul 2005  
 AB Alkoxyated waxes are adjuvants in formulations for plant protection products or fertilizers in horticulture and agriculture, in particular for spraying applications. The waxes are natural waxes, which contain one or more ester groups, natural waxes with a sum of the functionality of free OH groups and free acid radicals (OHZ + SP) of more than 20, or synthetic waxes or wax mixts. with a sum of the functionality between 20 and 100, individually or in combination. The waxes act as filmogens.  
 IT 26787-65-5D, montan wax-containing  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (use alkoxyated waxes as adjuvants in pesticidal formulations)  
 RN 26787-65-5 HCAPLUS  
 CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



IPCI A01N0025-08 [ICM,7]  
 IPCR A01N0025-08 [I,C\*]; A01N0025-08 [I,A]; A01N0025-24 [I,C\*];  
 A01N0025-24 [I,A]; A01N0025-30 [I,C\*]; A01N0025-30 [I,A];  
 A01N0043-02 [I,C\*]; A01N0043-12 [I,A]; A01N0043-34 [I,C\*];  
 A01N0043-40 [I,A]; A01N0043-42 [I,A]; A01N0043-64 [I,C\*];  
 A01N0043-707 [I,A]; A01N0043-72 [I,C\*]; A01N0043-82 [I,A];  
 A01N0043-90 [I,C\*]; A01N0043-90 [I,A]; A01N0047-10 [I,C\*];  
 A01N0047-22 [I,A]; A01N0047-28 [I,C\*]; A01N0047-36 [I,A];  
 A01N0053-00 [I,C\*]; A01N0053-00 [I,A]; A01N0065-00 [I,C\*];

# 10/538,024-362669-EIC SEARCH

A01N0065-00 [I,A]  
 CC 5-6 (Agrochemical Bioregulators)  
 ST alkoxyated wax adjuvant pesticide formulation  
 IT Pesticide formulations  
     (adjuvants; use alkoxyated waxes as adjuvants in pesticidal formulations)  
 IT Waxes  
     RL: MOA (Modifier or additive use); USES (Uses)  
     (alkoxyated; use alkoxyated waxes as adjuvants in pesticidal formulations)  
 IT Paraffin waxes, uses  
     RL: MOA (Modifier or additive use); USES (Uses)  
     (mixture with ethoxyated waxes; use alkoxyated waxes as adjuvants in pesticidal formulations)  
 IT Montan wax  
     RL: MOA (Modifier or additive use); USES (Uses)  
     (mixts. with ethoxyated montanates; use alkoxyated waxes as adjuvants in pesticidal formulations)  
 IT Polyoxyalkylenes, uses  
     RL: MOA (Modifier or additive use); USES (Uses)  
     (use alkoxyated waxes as adjuvants in pesticidal formulations)  
 IT 122931-48-0, Cato  
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
     (Cato; use alkoxyated waxes as adjuvants in pesticidal formulations)  
 IT 13684-63-4, Betanal 41394-05-2, Goltix 68359-37-5, Baythroid 105512-06-9, Topik 120923-37-7, Amidosulfuron 860456-41-3, Terano  
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
     (use alkoxyated waxes as adjuvants in pesticidal formulations)  
 IT 25322-68-3D, Polyethylene glycol, mixture with ethoxyated beeswax 25322-68-3D, Polyethylene glycol, mixture with ethoxyated candellila wax and paraffins 25322-68-3D, Polyethylene glycol, mixture with ethoxyated carnauba wax 25322-68-3D, Polyethylene glycol, mixture with ethoxyated montan wax 25322-68-3D, Polyethylene glycol, mixture with montan wax fatty acid ethylene esters 26787-65-5D, montan wax-containing 860439-43-6D, Polyoxyethylene sorbitan sesquioctacosanoate, montan wax-containing 860456-38-8D, montan wax-containing 860456-40-2D, montan wax-containing 860460-50-0D, montan wax-containing 860460-52-2D, montan wax-containing  
     RL: MOA (Modifier or additive use); USES (Uses)  
     (use alkoxyated waxes as adjuvants in pesticidal formulations)

## RETABLE

Referenced Author	Year	VOL	PG	Referenced Work	
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=====	+	=====	+	=====	+
====					
Anon				WO 03104330 A1	HCAPLUS
Anon				DE 10136804 A1	HCAPLUS
Anon				DE 19906491 A1	HCAPLUS

L40 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 2004:700653 HCAPLUS Full-text  
 DOCUMENT NUMBER: 141:208263  
 TITLE: Noncrystalline ethylene terephthalate

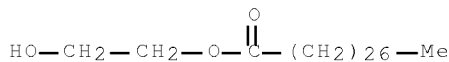
# 10/538,024-362669-EIC SEARCH

polymer compositions and  
their sheets with suppressed plate out in  
calendering and good printability  
INVENTOR(S): Takeoka, Shinichi; Ishihara, Akiko  
PATENT ASSIGNEE(S): Achilles Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004238534	A	20040826	JP 2003-29975	2003 0206
JP 4156395	B2	20080924	JP 2003-29975	2003 0206

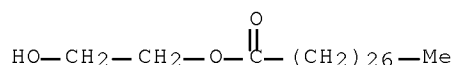
PRIORITY APPLN. INFO.: <--

ED Entered STN: 27 Aug 2004  
AB Title ~~comps.~~ comprise (A) 100 parts resins mainly containing noncryst. ethylene terephthalate ~~polymers~~ and (B) 0.1-4 parts lubricants containing olefin waxes 0.01-1, fatty esters 0.001-0.5, and fatty ester Ca salts 0.01-2.5 parts. Thus, a ~~composition~~ comprising Tsunami GS 2 (terephthalic acid-ethylene glycol-1,4-cyclohexanedimethanol ~~copolymer~~) 75, Parapet SA 1000F10 (soft acrylic resin) 25, oxidized polyethylene wax 0.2, ethylene glycol montanate Ca salt 0.6, and ethylene glycol montanate 0.2 part was kneaded and calendered to give a sheet with good roll releasability. The sheets printed with Vinyate (printing ink) showed ink-peeled area <15% in cross cut adhesion test (JIS K 5600).  
IT 26787-65-5 741671-42-1  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(lubricant; noncryst. ethylene terephthalate ~~polymer~~ ~~comps.~~ with no lubricant plate out for calendering)  
RN 26787-65-5 HCAPLUS  
CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



RN 741671-42-1 HCAPLUS  
CN Octacosanoic acid, 2-hydroxyethyl ester, calcium salt (2:1) (CA INDEX NAME)

# 10/538,024-362669-EIC SEARCH



● 1/2 Ca

IPCI C08L0067-02 [I,A]; C08L0067-00 [I,C\*]; C08K0005-101 [I,A];  
C08K0005-00 [I,C\*]; C08L0051-00 [I,A]; C08L0023-26 [I,A];  
C08L0023-00 [I,C\*]  
IPCR C08K0005-00 [I,C\*]; C08K0005-101 [I,A]; C08L0051-00 [I,A];  
C08L0051-00 [I,C\*]; C08L0067-00 [I,C\*]; C08L0067-02 [I,A];  
C08L0023-00 [I,C]; C08L0023-26 [I,A]  
CC 38-3 (Plastics Fabrication and Uses)  
ST ethylene terephthalate cyclohexanedimethanol copolymer  
sheet calenderability; polyethylene wax ethylene glycol montanate  
lubricant polyester; printability polyethylene terephthalate plate  
out prevention; fatty ester olefin lubricant polyester calendering  
IT Fatty acids, uses  
RL: MOA (Modifier or additive use); TEM (Technical or engineered  
material use); USES (Uses)  
(esters, lubricants; noncryst. ethylene terephthalate  
polymer compns. with no lubricant plate out  
for calendering)  
IT Paraffin waxes, uses  
RL: MOA (Modifier or additive use); TEM (Technical or engineered  
material use); USES (Uses)  
(lubricants; noncryst. ethylene terephthalate polymer  
compns. with no lubricant plate out for calendering)  
IT Lubricants  
Plastic films  
(noncryst. ethylene terephthalate polymer  
compns. with no lubricant plate out for calendering)  
IT Acrylic polymers, uses  
Polyesters, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered  
material use); USES (Uses)  
(noncryst. ethylene terephthalate polymer  
compns. with no lubricant plate out for calendering)  
IT Polymer blends  
RL: TEM (Technical or engineered material use); USES (Uses)  
(noncryst. ethylene terephthalate polymer  
compns. with no lubricant plate out for calendering)  
IT Polyolefins  
RL: MOA (Modifier or additive use); TEM (Technical or engineered  
material use); USES (Uses)  
(waxes, lubricants; noncryst. ethylene terephthalate  
polymer compns. with no lubricant plate out  
for calendering)  
IT 26787-65-5 741671-42-1  
RL: MOA (Modifier or additive use); TEM (Technical or engineered  
material use); USES (Uses)  
(lubricant; noncryst. ethylene terephthalate polymer  
compns. with no lubricant plate out for calendering)  
IT 25038-91-9, Tsunami GS 2 743478-09-3, Parapet SA 1000F10  
RL: POF (Polymer in formulation); TEM (Technical or engineered  
material use); USES (Uses)  
(noncryst. ethylene terephthalate polymer

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compos. with no lubricant plate out for calendering)  
 IT 9002-88-4D, Polyethylene, oxidized  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (wax, lubricant; noncryst. ethylene terephthalate  
 polymer compos. with no lubricant plate out  
 for calendering)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE  
 THIS RECORD (3 CITINGS)

L40 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 2003:991584 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:43759  
 TITLE: Mixtures of finely ground waxes  
 INVENTOR(S): Heinrichs, Franz-Leo; Krendlinger, Ernst  
 PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany  
 SOURCE: PCT Int. Appl., 25 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003104330	A1	20031218	WO 2003-EP5669	2003 0530

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W: CN, JP, US  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,  
 HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR  
 DE 10224845 A1 20031224 DE 2002-10224845  
 2002  
0605

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EP 1513898	A1	20050316	EP 2003-757006	2003 0530
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,  
 MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK  
 JP 2005533876 T 20051110 JP 2004-511394  
 2003  
0530

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US 20050241526	A1	20051103	US 2004-516928	2004 1203
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PRIORITY APPLN. INFO.: DE 2002-10224845 A  
 2002  
0605

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WO 2003-EP5669	W	2003 0530
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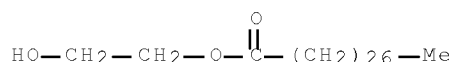
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT



# 10/538,024-362669-EIC SEARCH

ED Entered STN: 21 Dec 2003  
 AB The finely ground wax ~~mixts.~~ with improved compatibility with polar media, useful as additives in coatings and lacquers, as ~~dispersants~~ for pigments, as lubricants for plastics, etc., comprise (A) ester waxes, (B) amide waxes, (C) hydrocarbon waxes, and (D) oxidized long-chain hydrocarbons. A typical ground wax ~~mixture~~ contained sorbitol monomontanate 85, montan wax acid 15 and amide wax C 20 parts.  
 IT 26787-65-5, Ethanediol monomontanate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (mixts. of finely ground waxes)  
 RN 26787-65-5 HCAPLUS  
 CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



IPCI C08L0091-06 [ICM,7]; C08L0091-00 [ICM,7,C\*]; C08J0003-12 [ICS,7]  
 IPCR C08J0003-20 [I,C\*]; C08J0003-22 [I,A]; C08K0005-00 [I,C\*];  
 C08K0005-103 [I,A]; C08L0091-00 [I,C\*]; C08L0091-06 [I,A];  
 C08L0091-08 [N,A]; C09D0005-03 [I,C\*]; C09D0005-03 [I,A];  
 C09D0007-02 [I,C\*]; C09D0007-02 [I,A]; C09D0007-12 [I,C\*];  
 C09D0007-12 [I,A]; C09D0011-02 [I,C\*]; C09D0011-02 [I,A]  
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)  
 Section cross-reference(s): 42  
 ST wax ground ~~mixt~~ powder coating additive; pigment  
~~dispersant~~ ground wax ~~mixt~~; sorbitol  
 monomontanate ground wax ~~mixt~~; montan wax acid ground  
 wax ~~mixt~~; amide wax ground ~~mixt~~ pigment  
~~dispersant~~  
 IT Hydrophobicity  
 (agents; mixts. of finely ground waxes as)  
 IT Polyolefins  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (copolymers, modified, waxes; mixts. of  
 finely ground waxes)  
 IT Dispersing agents  
 (for pigments; mixts. of finely ground waxes as)  
 IT Candelilla wax  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (for plastics; mixts. of finely ground waxes)  
 IT Lubricants  
 (for plastics; mixts. of finely ground waxes as)  
 IT Carnauba wax  
 Hydrocarbon waxes, uses  
 Montan wax  
 Waxes  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (mixts. of finely ground waxes)  
 IT Fatty acids, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (montan-wax; mixts. of finely ground waxes)  
 IT Coating materials  
 (powder; mixts. of finely ground waxes as pigment  
~~dispersants~~ for)  
 IT Waxes  
 RL: TEM (Technical or engineered material use); USES (Uses)

# 10/538,024-362669-EIC SEARCH

(sugarcane; ~~mixts.~~ of finely ground waxes)

IT Amides, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(waxes; ~~mixts.~~ of finely ground waxes)

IT 26787-65-5, Ethanediol monomontanate 52258-47-6,  
Calcium montanate 74388-20-8 74388-22-0 94055-02-4,  
Pentaerythritol trimontanate 129774-29-4, Glycerin montanate  
635677-41-7, Sorbitol montanate 635677-42-8, Sorbitol montanate  
stearate  
RL: TEM (Technical or engineered material use); USES (Uses)  
(~~mixts.~~ of finely ground waxes)

IT 147-14-8, Hostaperm Blue A 4R 1047-16-1, Hostaperm Red Violet ER  
02  
RL: TEM (Technical or engineered material use); USES (Uses)  
(pigment; ~~mixts.~~ of finely ground waxes as pigment  
~~dispersants~~)

IT 9002-88-4, Licowax PE 130  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyethylene wax; ~~mixts.~~ of finely ground waxes)

IT 9002-88-4D, Polyethylene, oxidized  
RL: TEM (Technical or engineered material use); USES (Uses)  
(wax; ~~mixts.~~ of finely ground waxes)

## RETABLE

Referenced (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	File
Abraham, J	2001			WO 0132780 A	
Bott, R	2001			WO 0164776 A	
Clariant Gmbh	2000			EP 1010728 A	HCAPLUS
Clariant Gmbh	2001			WO 0164799 A	HCAPLUS
Du Pont	1993			EP 0529975 A	HCAPLUS
Fernz Corp Limited	1995			WO 9534200 A	HCAPLUS
Hoechst Ag	1981			EP 0028713 A	HCAPLUS
Huels Chemische Werke A	1987			EP 0222061 A	HCAPLUS
Huels Chemische Werke A	1989			EP 0324077 A	HCAPLUS
Leo, H	2001			WO 0185855 A	HCAPLUS
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)					

L40 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 2000:356459 HCAPLUS Full-text  
 DOCUMENT NUMBER: 133:6901  
 TITLE: Aqueous lubricating compositions  
 INVENTOR(S): Yamamoto, Yasuyoshi; Fukushima, Aritoshi;  
 Igarashi, Chieko; Saito, Yoko  
 PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000144167	A	20000526	JP 1998-314582	1998

# 10/538,024-362669-EIC SEARCH

1105

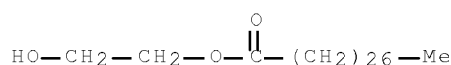
PRIORITY APPLN. INFO.:

<--  
JP 1998-314582

1998  
1105

<--

ED Entered STN: 30 May 2000  
AB Aqueous lubricating ~~comps.~~ contain (A) water-soluble or water- dispersible resins, e.g., urethane resins, (B) metal atom-containing solid lubricants, e.g., Mo-containing lubricants, and (C) C<sub>20</sub> fatty acids, their metal salts or esters or their partial saponified products.  
IT 26787-65-5  
RL: MOA (Modifier or additive use); USES (Uses)  
(aqueous lubricating ~~comps.~~ containing)  
RN 26787-65-5 HCAPLUS  
CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



IPCI C10M0173-00 [ICM,7]; B21J0003-00 [ICS,7]; C10M0103-06 [ICS,7]; C10M0105-24 [ICS,7]; C10M0105-38 [ICS,7]; C10M0105-72 [ICS,7]; C10M0107-44 [ICS,7]; C10M0145-40 [ICS,7]; C10N0010-02 [ICS,7]; C10N0010-04 [ICS,7]; C10N0010-12 [ICS,7]; C10N0040-20 [ICS,7]  
IPCR B21J0003-00 [I,C\*]; B21J0003-00 [I,A]; C10M0103-00 [I,C\*]; C10M0103-06 [I,A]; C10M0105-00 [I,C\*]; C10M0105-24 [I,A]; C10M0105-38 [I,A]; C10M0105-72 [I,A]; C10M0107-00 [I,C\*]; C10M0107-44 [I,A]; C10M0145-00 [I,C\*]; C10M0145-40 [I,A]; C10M0173-00 [I,C\*]; C10M0173-00 [I,A]; C10N0010-02 [N,A]; C10N0010-04 [N,A]; C10N0010-12 [N,A]; C10N0040-20 [N,A]  
CC 51-8 (Fossil Fuels, Derivatives, and Related Products)  
Section cross-reference(s): 55, 56  
ST aq lubricating ~~compn~~ resin solid lubricant  
IT Acrylic ~~polymers~~, uses  
Polyamides, uses  
Polyurethanes, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(aqueous lubricating ~~comps.~~ containing)  
IT Lubricating oils  
(metalworking, water-based ~~emulsions~~; aqueous lubricating ~~comps.~~)  
IT Lubricating oils  
(metalworking; aqueous lubricating ~~comps.~~)  
IT Lubricants  
(solid; aqueous lubricating ~~comps.~~ containing)  
IT 79-06-1D, Acrylamide, ~~polymers~~ 79-10-7D, Acrylic acid, esters, ~~polymers~~ 79-41-4D, Methacrylic acid, esters, ~~polymers~~ 3578-72-1, Calcium behenate 9002-89-5, Poly(vinyl alcohol) 20471-51-6, Octacosanoic acid, lithium salt 26787-64-4D, calcium saponified derivs. 26787-65-5 52258-47-6, Calcium montanate 227619-26-3  
RL: MOA (Modifier or additive use); USES (Uses)  
(aqueous lubricating ~~comps.~~ containing)  
IT 37268-90-9, S45C, processes  
RL: PEP (Physical, engineering or chemical process); PROC (Process)

# 10/538,024-362669-EIC SEARCH

(aqueous lubricating ~~compos.~~ for)  
 IT 9002-98-6  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (~~dispersant~~; aqueous lubricating ~~compos.~~ containing)  
 IT 1317-33-5, Molybdenum disulfide, uses 12174-53-7, Sericite  
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)  
 (solid lubricant; aqueous lubricating ~~compos.~~ containing)  
 IT 150-11-8D, Dibutyldithiocarbamic acid, sulfurized oxymolybdenum complexes 77414-73-4D, sulfurized oxymolybdenum complexes  
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)  
 (solid lubricants; aqueous lubricating ~~compos.~~ containing)  
 OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L40 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 2000:83231 HCAPLUS Full-text  
 DOCUMENT NUMBER: 132:127476  
 TITLE: Use of glyceryl and/or glycol esters of long-chain aliphatic (un)branched fatty acids in cosmetic and dermatological preparations to reinforce the barrier function of the skin  
 INVENTOR(S): Lanzendoerfer, Ghita; Schreiner, Volker; Hamer, Gunhild  
 PATENT ASSIGNEE(S): Beiersdorf A.-G., Germany  
 SOURCE: Ger. Offen., 10 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19834813	A1	20000203	DE 1998-19834813	1998 0801

PRIORITY APPLN. INFO.: <--  
 DE 1998-19834813  
 1998 0801  
 <--

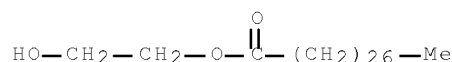
ED Entered STN: 03 Feb 2000  
 AB The barrier function of the epidermis is reinforced or restored by use of skin-conditioning and skin-cleansing ~~compos.~~ containing ethylene glycol mono- and diesters or glycerin mono-, di-, and triesters with C20-40 fatty acids. These ~~compos.~~ also are useful for treatment and prophylaxis of fissures, inflammatory or allergic processes in the skin, or neurodermatitis. Thus, a hydrodispersion gel contained stearyl alc. 2.00, behenyl alc. 2.00, ceramide 3 0.20, glyceryl arachidonate 0.50, Carbopol 0.30, hydroxyethylcellulose 0.40, glycerin 3.00, panthenol 1.00, caprylic/capric triglyceride 3.00, iso-Pr palmitate 3.00, shea butter 2.00, antioxidants, preservatives, neutralizing agents, perfume, dyes, and H2O to 100 weight%.  
 IT 26787-65-5 103048-83-5 255915-53-8  
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (use of glyceryl and glycol esters of long-chain fatty acids in

# 10/538,024-362669-EIC SEARCH

cosmetic and dermatol. prepn. to reinforce the skin's barrier  
function)

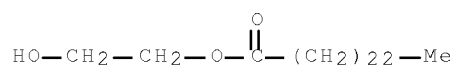
RN 26787-65-5 HCAPLUS

CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



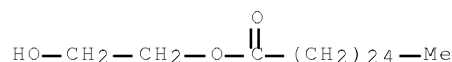
RN 103048-83-5 HCAPLUS

CN Tetracosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



RN 255915-53-8 HCAPLUS

CN Hexacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



IPCI A61K0007-00 [ICM,6]; A61K0007-48 [ICS,6]; A61K0007-50 [ICS,6];  
A61K0031-20 [ICS,6]; A61K0031-185 [ICS,6,C\*]

IPCR A61K0008-30 [I,C\*]; A61K0008-37 [I,A]; A61K0031-185 [I,C\*];  
A61K0031-20 [I,A]; A61K0031-21 [I,C\*]; A61K0031-23 [I,A];  
A61K0031-232 [I,A]; A61Q0001-02 [N,C\*]; A61Q0001-02 [N,A];  
A61Q0001-06 [N,A]; A61Q0005-00 [I,C\*]; A61Q0005-00 [I,A];  
A61Q0005-02 [N,C\*]; A61Q0005-02 [N,A]; A61Q0017-00 [I,C\*];  
A61Q0017-00 [I,A]; A61Q0019-00 [I,C\*]; A61Q0019-00 [I,A];  
A61Q0019-08 [I,C\*]; A61Q0019-08 [I,A]; A61Q0019-10 [N,C\*];  
A61Q0019-10 [N,A]

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

IT Cosmetics

Drug delivery systems

(~~emulsions~~; use of glyceryl and glycol esters of  
long-chain fatty acids in cosmetic and dermatol. prepn. to  
reinforce the skin's barrier function)

IT 112-85-6D, Behenic acid, esters with glycols and glycerol  
506-32-1D, Arachidonic acid, esters with glycols and glycerol  
506-46-7D, Cerotic acid, esters with glycols and glycerol  
506-48-9D, Montanic acid, esters with glycols and glycerol  
557-59-5D, Lignoceric acid, esters with glycols and glycerol  
18641-57-1, Tribehenin 26787-65-5 59787-92-7  
77538-19-3 103048-83-5 123514-65-8 229473-34-1,  
Glyceryl arachidonate 255915-53-8

RL: BUU (Biological use, unclassified); THU (Therapeutic use);

BIOL (Biological study); USES (Uses)

# 10/538,024-362669-EIC SEARCH

(use of glyceryl and glycol esters of long-chain fatty acids in cosmetic and dermatol. preps. to reinforce the skin's barrier function)

## RETABLE

Referenced Author	Year	VOL	PG	Referenced Work	
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=====	+	=====	+	=====	+
====					
Anon				EP 0775481 A1	HCAPLUS
Anon				EP 0786251 A2	HCAPLUS
Anon				DE 19501288 A1	HCAPLUS
Anon				DE 19543633 A1	HCAPLUS
Anon				DE 19635553 A1	HCAPLUS
Anon				DE 19649101 A1	HCAPLUS
Anon				DE 19711417 A1	HCAPLUS

L40 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1999:72157 HCAPLUS Full-text

DOCUMENT NUMBER: 130:176571

TITLE: High-density magnetic recording medium with good running durability

INVENTOR(S): Noguchi, Hitoshi; Nakamigawa, Junichi; Saito, Shinji

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 11025449	A	19990129	JP 1997-181351	1997 0707

<--

PRIORITY APPLN. INFO.: JP 1997-181351

1997  
0707

<--

ED Entered STN: 03 Feb 1999

AB The recording medium has a magnetic layer containing ferromagnetic powders, a binder, a diester of a glycol and an unsatd. fatty acid, and a monoester of a glycol and an unsatd. fatty acid. The recording medium shows good electromagnetic conversion characteristics and high running durability.

IT 220423-97-2

RL: DEV (Device component use); MOA (Modifier or additive use);

USES (Uses)

(high-d. magnetic recording medium containing unsatd. fatty acid ester mixture lubricant)

RN 220423-97-2 HCAPLUS

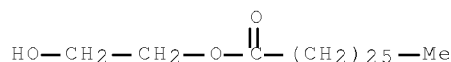
CN Heptacosenoic acid, 2-hydroxyethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 220423-96-1

CMF C29 H58 O3

# 10/538,024-362669-EIC SEARCH



IPCI G11B0005-71 [ICM,6]; C10M0105-38 [ICS,6]; C10N0040-18 [ICS,6]  
 CC 77-8 (Magnetic Phenomena)  
 Section cross-reference(s): 23  
 IT Glycols, uses  
 RL: DEV (Device component use); MOA (Modifier or additive use);  
 USES (Uses)  
 (esters, with unsatd. fatty acids; high-d. magnetic recording  
 medium containing unsatd. fatty acid ester ~~mixture~~  
 lubricant)  
 IT Lubricants  
 Magnetic disks  
 (high-d. magnetic recording medium containing unsatd. fatty acid  
 ester ~~mixture~~ lubricant)  
 IT Fatty acids, uses  
 RL: DEV (Device component use); MOA (Modifier or additive use);  
 USES (Uses)  
 (unsatd., esters, with glycols; high-d. magnetic recording  
 medium containing unsatd. fatty acid ester ~~mixture~~  
 lubricant)  
 IT 7439-89-6, Iron, uses 7440-48-4, Cobalt, uses 11138-11-7,  
 Barium ferrite  
 RL: DEV (Device component use); USES (Uses)  
 (ferromagnetic powders; high-d. magnetic recording medium  
 containing unsatd. fatty acid ester ~~mixture~~ lubricant)  
 IT 928-24-5 28068-33-9 39903-07-6 65438-32-6 212957-19-2  
 212957-22-7 212957-27-2 220201-68-3 220423-94-9  
 220423-97-2  
 RL: DEV (Device component use); MOA (Modifier or additive use);  
 USES (Uses)  
 (high-d. magnetic recording medium containing unsatd. fatty acid  
 ester ~~mixture~~ lubricant)

L40 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1994:55922 HCAPLUS Full-text

DOCUMENT NUMBER: 120:55922

ORIGINAL REFERENCE NO.: 120:10206h,10207a

TITLE: Polyoxymethylene molding ~~composition~~  
 with reduced ~~melt~~ flow instability

INVENTOR(S): Fleischer, Dietrich; Kirst, Andreas; Kohlhepp,  
 Klaus; Sabel, Hans Dieter

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

DOCUMENT TYPE: ~~Patent~~

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 548692	A2	19930630	EP 1992-121078	

# 10/538,024-362669-EIC SEARCH

1992  
1210

<--

EP 548692 A3 19930908  
EP 548692 B1 19970326  
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE  
JP 05279550 A 19931026 JP 1992-329629

1992  
1209

<--

US 5416152 A 19950516 US 1992-988720

1992  
1210

<--

ES 2101789 T3 19970716 ES 1992-121078

1992  
1210

<--

PRIORITY APPLN. INFO.: DE 1991-4140898 A

1991  
1212

<--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 05 Feb 1994

AB The title ~~compos.~~ comprise esters of C22-34 fatty acids with C2-8 mono- or polyhydric alcs. and, optionally, alkali or alkaline earth metal salts of C22-34 fatty acids, and/or polyethylene wax. These ~~additives~~ effectively reduce surface regularities in articles molded from polyacetal (especially polyoxymethylene) resins, caused by breaking of the resin ~~melts~~. For example, 2-mm-thick plate extruded and calendered from a trioxane-ethylene oxide ~~copolymer~~ (2% ethylene oxide) (I) containing 0.05% Wax OP (montanic acid butylene glycol ester ~~mixture~~ with Ca montanate) had a surface free from irregularities, compared to slightly irregular surface of a standard plate made from I containing 0.2% bis(N,N-stearoyl)ethylenediamine.

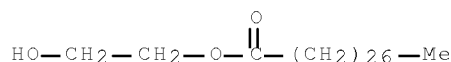
IT 26787-65-5

RL: USES (Uses)

(additive, polyoxymethylene molding ~~composition~~ containing, reduced ~~melt~~ flow instability of)

RN 26787-65-5 HCAPLUS

CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



IPCI C08K0005-10 [ICM,5]; C08K0005-00 [ICM,5,C\*]

IPCR B29C0043-24 [I,C\*]; B29C0043-24 [I,A]; C08K0005-00 [I,C\*];  
C08K0005-098 [I,A]; C08K0005-10 [I,A]; C08K0005-101 [I,A];  
C08L0023-00 [N,C\*]; C08L0023-06 [N,A]; C08L0059-00 [I,C\*];  
C08L0059-00 [I,A]; F23Q0002-00 [I,C\*]; F23Q0002-50 [I,A]

CC 37-6 (Plastics Manufacture and Processing)

ST montanate butylene glycol polyoxymethylene molding  
~~additive~~; polyethylene wax ~~additive~~  
polyoxymethylene molding; calcium montanate ~~additive~~  
polyoxymethylene molding; surface irregularity polyoxymethylene  
molding ~~additive~~; ~~melt~~ flow instability  
polyoxymethylene molding



# 10/538,024-362669-EIC SEARCH

IT Fatty acids, esters  
 RL: USES (Uses)  
 (C22-38, esters, with mono- or polyhydric alcs.,  
 additives for molding polyoxymethylenes)

IT Fatty acids, esters  
 RL: USES (Uses)  
 (montan-wax, esters, with butylene glycol, Wax OP,  
 additives for reducing melt flow instability  
 in molding polyoxymethylenes)

IT Polyoxymethylenes, miscellaneous  
 RL: MSC (Miscellaneous)  
 (polyoxyalkylene-, molding composition containing montanic  
 acid esters, reduced melt flow instability of)

IT Polyoxyalkylenes, miscellaneous  
 RL: MSC (Miscellaneous)  
 (polyoxymethylene-, molding composition containing montanic  
 acid esters, reduced melt flow instability of)

IT 52258-47-6, Calcium montanate  
 RL: USES (Uses)  
 (additive, butylene glycol montanate and,  
 polyoxymethylene molding composition containing, reduced  
 melt flow instability of)

IT 26787-64-4  
 RL: USES (Uses)  
 (additive, calcium montanate and, polyoxymethylene  
 molding composition containing, reduced melt flow  
 instability of)

IT ~~26787-65-5~~ 111236-60-3  
 RL: USES (Uses)  
 (additive, polyoxymethylene molding composition  
 containing, reduced melt flow instability of)

IT 24969-25-3, Ethylene oxide-trioxane copolymer  
 RL: USES (Uses)  
 (molding composition containing montanic acid glycol or  
 glycerol esters, reduced melt flow instability of)

IT 9002-88-4, Polyethylene  
 RL: USES (Uses)  
 (wax, additive, polyoxymethylene molding  
 composition containing, reduced melt flow instability  
 of)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE  
 THIS RECORD (2 CITINGS)

L40 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 1993:497888 HCAPLUS Full-text  
 DOCUMENT NUMBER: 119:97888  
 ORIGINAL REFERENCE NO.: 119:17641a,17644a  
 TITLE: Manufacture of water-repellent polyester  
 fibers  
 INVENTOR(S): Ogawa, Kimihiro; Yamada, Hironori  
 PATENT ASSIGNEE(S): Teijin Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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# 10/538,024-362669-EIC SEARCH

JP 04337321

A

19921125

JP 1991-138553

1991  
0515

PRIORITY APPLN. INFO.:

JP 1991-138553

1991  
0515

OTHER SOURCE(S): MARPAT 119:97888

ED Entered STN: 04 Sep 1993

AB The title fibers with good color and smoothness are prepared from diacids (mainly aromatic acids or their esters and diols containing  $\geq 1$  alkylene glycol in the presence of 5-10 parts (based on 100 parts acid component)  $\geq 1$  fatty acid ester of acid value 7-70 and Ti and Sb compound condensation catalysts. Di-Me terephthalate 100, ethylene glycol 58, and Mn acetate 0.08 part were heated to 240° with distillation of MeOH, treated with 0.097 parts tri-Me phosphate, 5.5 parts ethylene glycol monotanate (acid value 30), 0.03 mol% Sb<sub>2</sub>O<sub>3</sub>, and 0.03 mol% Ti trimellitate, polycondensed at 280° in vacuo, and the resulting polyester was melt-spun to give a fiber showing washfast water repellency and smooth handle.

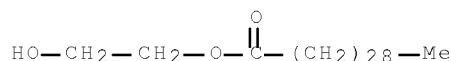
IT 55130-02-4DP, PET modified by

RL: PREP (Preparation)

(fiber, durable, water-repellent, smooth, manufacture of, catalysts for)

RN 55130-02-4 HCAPLUS

CN Triacontanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



IPCI C08G0063-78 [ICM,5]; C08G0063-181 [ICS,5]; C08G0063-85 [ICS,5];

C08G0063-86 [ICS,5]; C08G0063-00 [ICS,5,C\*]

IPCR C08G0063-181 [I,A]; C08G0063-00 [I,C\*]; C08G0063-78 [I,A];

C08G0063-82 [I,A]; C08G0063-85 [I,A]; C08G0063-86 [I,A]

CC 40-2 (Textiles and Fibers)

IT Polymerization catalysts

(antimony and titanium compds., for manufacture of polyester fibers)

IT 25038-59-9DP, PET polymer, fatty acid ester-modified

37220-84-1DP, Ethylene glycol montanate, PET modified by

55130-02-4DP, PET modified by 84324-99-2DP, PET modified

by 139534-69-3DP, PET modified by

RL: PREP (Preparation)

(fiber, durable, water-repellent, smooth, manufacture of, catalysts for)

L40 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1986:470117 HCAPLUS Full-text

DOCUMENT NUMBER: 105:70117

ORIGINAL REFERENCE NO.: 105:11257a,11260a

TITLE: Electrostatographic developer magnetic carrier

INVENTOR(S): Kasuya, Ryuhei; Koizumi, Fumio; Okuyama, Takeki; Shigeta, Kunio

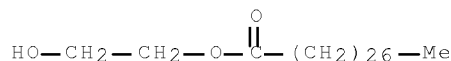
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

# 10/538,024-362669-EIC SEARCH

DOCUMENT TYPE: CODEN: JKXXAF  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: 1 Japanese  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61009663	A	19860117	JP 1984-129217	1984 0625
				<--
PRIORITY APPLN. INFO.:			JP 1984-129217	1984 0625
				<--
ED Entered STN: 23 Aug 1986				
AB The claimed carrier has an average particle diameter 10-50 μm and is prepared by dispersing in a binder resin a magnetic powder and a mold lubricant. Zn stearate may be used as a lubricant for the above carrier.				
IT 26787-65-5				
RL: USES (Uses)				
(electrostatog. developer magnetic carriers containing)				
RN 26787-65-5 HCAPLUS				
CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)				



IPCI G03G0009-10 [ICM,4]  
 IPCR G03G0009-10 [I,C\*]; G03G0009-10 [I,A]; G03G0009-107 [I,C\*];  
 G03G0009-107 [I,A]  
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
 IT Photography, electro-, developers  
 (carriers, magnetic, containing magnetite and mold lubricant dispersed in binder resin)  
 IT Electrophotography  
 (developers, carriers for, containing magnetite and mold lubricant dispersed in binder resin)  
 IT 75-38-7D, copolymers 110-30-5 112-92-5 506-48-9  
 506-48-9D, ester, partially saponified 557-05-1 9002-88-4  
 11099-07-3 26787-65-5  
 RL: USES (Uses)  
 (electrostatog. developer magnetic carriers containing)

L40 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 1981:102852 HCAPLUS Full-text  
 DOCUMENT NUMBER: 94:102852  
 ORIGINAL REFERENCE NO.: 94:16763a,16766a  
 TITLE: Separation of straight-chain higher aliphatic carbonyl compounds  
 PATENT ASSIGNEE(S): Agency of Industrial Sciences and Technology, Japan; Lion Corp.  
 SOURCE: Jpn. Tokkyo Koho, 3 pp.

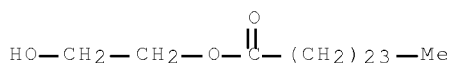
# 10/538,024-362669-EIC SEARCH

DOCUMENT TYPE: CODEN: JAXXAD  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: 1 Japanese  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55036650	B	19800922	JP 1976-146349	1976 1206

PRIORITY APPLN. INFO.: <-- JP 1976-146349 A  
 1976  
 1206

ED Entered STN: 12 May 1984  
 AB Straight-chain saturated higher aliphatic carbonyl compds., e.g., C18+ aliphatic acids, esters and aldehydes were separated from the corresponding branched compds. by dissolving the ~~mixts.~~ in hot noncyclic ethers, keeping the solns. at room temperature and separating the deposited crystals. Thus, 73-79% pure stearic, n-docosanoic and n-octacosanoic acids, Et n-dexatriacontanoate, and n-pentacosanoic acid ethylene glycol monoester were purified by dissolving in Pr2O, (Me2CH)2O, Et2O, Et2O and PhOEt, resp., to give 100% pure compds. Similarly, n-octadecanal and n-octatriacontanal were purified with Bu2O and (EtOCH2CH2)2O, resp., to give 97% and 99% pure compds. resp.  
 IT ~~76651-59-7~~  
 RL: PROC (Process)  
 (separation of, from branched compds. with ether)  
 RN 76651-59-7 HCAPLUS  
 CN Pentacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



IPCI C07C0047-02; C07C0053-126; C07C0053-00 [C\*]; C07C0069-22;  
 C07C0069-00 [C\*]; C07C0045-81; C07C0045-00 [C\*]; C07C0051-43;  
 C07C0051-42 [C\*]; C07C0067-52; C07C0067-00 [C\*]  
 CC 23-17 (Aliphatic Compounds)  
 IT 57-11-4P, preparation 112-85-6 506-48-9 638-66-4  
 68947-62-6 76651-57-5 76651-58-6 ~~76651-59-7~~  
 76651-60-0 76651-61-1  
 RL: PREP (Preparation)  
 (separation of, from branched compds. with ether)

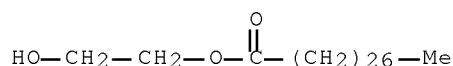
L40 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 1979:475348 HCAPLUS Full-text  
 DOCUMENT NUMBER: 91:75348  
 ORIGINAL REFERENCE NO.: 91:12201a,12204a  
 TITLE: Cellular polyesters  
 INVENTOR(S): Iguchi, Norio; Fukumoto, Teruhisa; Mori, Yoshio  
 PATENT ASSIGNEE(S): Teijin Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

# 10/538,024-362669-EIC SEARCH

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54050568	A	19790420	JP 1977-116651	1977 0930
			<--	
JP 57046457	B	19821004	JP 1977-116651	A 1977 0930
PRIORITY APPLN. INFO.:				<--

ED Entered STN: 12 May 1984  
 AB Uniformly cellular polyesters, with increased expansion ratio, were prepared by blending a diepoxy compound and a montanic acid salt or salt of its ester with ~~compos.~~ containing the polyester and foaming the ~~composition~~ Thus, a blend of 100 parts poly(ethylene terephthalate) [25038-59-9] and 1 part 2,2-bis(4-hydroxyphenyl)propane diglycidyl ether (I) [1675-54-3] was pelletized. Na montanate [25728-82-9] (0.3 part) was added and the ~~composition~~ and 5 parts N and 8 parts CCl4 were melt extruded together through a die to give a uniform foam with expansion ratio 27, compared with 3 for a foam obtained from a similar ~~composition~~ without I.  
 IT 71112-82-8  
 RL: USES (Uses)  
 (polyester foams containing, for improved uniformity)  
 RN 71112-82-8 HCAPLUS  
 CN Octacosanoic acid, 2-hydroxyethyl ester, sodium salt (1:1) (CA INDEX NAME)



● Na

IPCI C08J0009-04; C08J0009-00 [C\*]; B29D0027-00 [ICA]  
 IPCR C08J0009-00 [I,C\*]; C08J0009-04 [I,A]; B29B0007-00 [I,C\*];  
 B29B0007-00 [I,A]; B29C0047-00 [I,C\*]; B29C0047-00 [I,A];  
 B29C0047-10 [I,C\*]; B29C0047-10 [I,A]; B29C0047-38 [I,C\*];  
 B29C0047-38 [I,A]  
 CC 36-6 (Plastics Manufacture and Processing)  
 IT 25728-82-9 71112-81-7 71112-82-8  
 RL: USES (Uses)  
 (polyester foams containing, for improved uniformity)

L40 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 1975:411434 HCAPLUS Full-text  
 DOCUMENT NUMBER: 83:11434  
 ORIGINAL REFERENCE NO.: 83:1927a,1930a  
 TITLE: Copolyarylate compositions with good

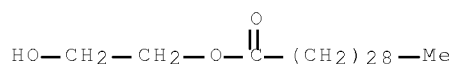
# 10/538,024-362669-EIC SEARCH

INVENTOR(S): mold releasability  
Sakata, Hiroshi; Asahara, Nakaba; Okamoto,  
Takashi  
PATENT ASSIGNEE(S): Unitika Ltd.  
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49129747	A	19741212	JP 1973-42893	1973 0416
JP 57014384	B	19820324	JP 1973-42893	1973 0416

PRIORITY APPLN. INFO.: <--

ED Entered STN: 12 May 1984  
AB Polyesters prepared from bisphenols and mixts. of terephthalic acid (I) and isophthalic acid (II) (or their derivs.) at I group/II group molar ratio = 1-9:1-9 were mixed with 0.01-5 weight% esters or partial esters of C12-30 aliphatic saturated monocarboxylic acids and <C30 aliphatic saturated mono- or polyhydric alcs. as lubricant. Thus, a 10% CH2Cl2 solution of polyester [25639-68-3] prepared by interphase-polymerization of 1:1 I dichloride-II dichloride mixture in CH2Cl2 with an aqueous alkaline solution of bisphenol A was mixed with 0.7 weight% ethylene glycol melissate [55130-02-4], evaporated to 30% concentration, kneaded, dried, pelleted at 300°, dried at 120°, and injection-molded. Internal mold pressure and mold-release resistance were 621 kg/cm2 and 375 kg, as compared with 627 and 483 resp. for moldings prepared without the lubricant.  
IT 55130-02-4  
RL: USES (Uses)  
(bisphenol isophthalate terephthalate polyester compns  
. containing, with improved mold release)  
RN 55130-02-4 HCAPLUS  
CN Triacontanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



INCL 25(1)D32  
IPCR C08L0067-00 [I,C\*]; C08L0067-00 [I,A]  
CC 36-6 (Plastics Manufacture and Processing)  
IT Polyesters, uses and miscellaneous  
RL: USES (Uses)  
(bisphenol isophthalate terephthalate, ester-containing  
composites, with improved mold release properties)  
IT 55130-02-4  
RL: USES (Uses)  
(bisphenol isophthalate terephthalate polyester compns

# 10/538,024-362669-EIC SEARCH

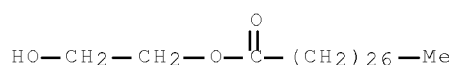
. containing, with improved mold release)  
 OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE  
 THIS RECORD (1 CITINGS)

L40 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
 ACCESSION NUMBER: 1971:406937 HCAPLUS Full-text  
 DOCUMENT NUMBER: 75:6937  
 ORIGINAL REFERENCE NO.: 75:1143a,1146a  
 TITLE: Regenerated cellulose films coated with a  
 vinylidene chloride copolymer  
 PATENT ASSIGNEE(S): Kalle A.-G.  
 SOURCE: Fr. Demande, 9 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2016841		19700703	FR	
				1968
				0731

PRIORITY APPLN. INFO.: DE <--

ED Entered STN: 12 May 1984  
 AB Printable and nonadherent regenerated cellulose (I) packaging films having reduced water vapor permeability were prepared by coating ≥1 surface with 81:0.6:3:15.4 vinylidene chlorideacrylic acid-acrylonitrile-vinyl chloride copolymer (II) composition containing an anti-friction agent. A I film containing 19% of 8:5:7 glycerol-urea-triethylene glycol and 7.5% H2O was coated on both surfaces with a solution of 93.4% II, 6.0% dilauryl ketone, and 0.6% CaCO3 in THF-PhMe to form a pressure-weldable film with reduced water vapor permeability. Approx. 3% partially saponified butylene glycol montanate, ethylene glycol montanate, or oxazolinic wax [1-alkyl-3-bis(hydroxymethyl)oxazoline diester] may be added to the II composition as adhesion resistance agents.  
 IT 26787-65-5  
 RL: USES (Uses)  
 (antiblocking agents, for regenerated cellulose films for packaging materials)  
 RN 26787-65-5 HCAPLUS  
 CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



IPCI C08F; C08B; B32B  
 CC 36 (Plastics Manufacture and Processing)  
 ST vinyl copolymer coating cellulose regenerated; adhesion resistant cellulose regenerated film; printable regenerated cellulose film; water vapor impermeable film; acrylonitrile copolymer coating film  
 IT Packaging materials

# 10/538,024-362669-EIC SEARCH

(cellulose films, regenerated, dichloroethylene  
copolymer-coated)

IT Coating materials  
(dichloroethylene copolymers, on regenerated  
cellulose films for packaging materials)  
IT 26787-64-4 26787-65-5  
RL: USES (Uses)  
(antiblocking agents, for regenerated cellulose films for  
packaging materials)  
IT 9004-34-6, uses and miscellaneous  
RL: USES (Uses)  
(regenerated, packaging materials from dichloroethylene  
copolymer-coated)

L40 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN  
ACCESSION NUMBER: 1970:80653 HCAPLUS Full-text  
DOCUMENT NUMBER: 72:80653  
ORIGINAL REFERENCE NO.: 72:14715a,14718a  
TITLE: Water repellent solid compounds containing  
paraffin  
INVENTOR(S): Hess, Richard; Wirtz, Guenter  
PATENT ASSIGNEE(S): Chemische Fabrik Stockhausen und Cie.  
SOURCE: Ger., 3 pp.  
CODEN: GWXXAW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
DE 1469295	A	19690424	DE 1964-C34739	1964 1224

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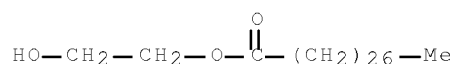
PRIORITY APPLN. INFO.: DE 1964-C34739 A 1964  
1224

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ED Entered STN: 12 May 1984  
AB Solid compds. stable at 35° are formed by ~~mixing~~ paraffin with a compound  
obtained by treating a C1-5 alkoxide of Ti or Al, e.g. Ti tetraalcoholate,  
with 0.25-0.8 mole C5-10 diols, e.g. 1,5-pentanediol, at 110°. The compound  
obtained is then treated with 0.05-0.3 mole montanic acid-diol monoester  
having 2-6 C atoms in the alkyl radical, e.g. 1,4-butylene glycol. The free  
alcs. are distilled and optionally a carboxy acid m.>45° is added. For  
example, 73 parts by weight octylene glycol was treated with 100 parts Al sec-  
butylate by ~~mixing~~ at room temperature After addition of 205 parts montanic  
acid-butylene glycol monoester themixt. was heated for 1 hr at 90°. The free  
sec-BuOH was distilled under vacuum. The 258 parts wax obtained and 500 parts  
paraffin were melted together at 80°. After cooling, the compound was chipped  
out of the container.  
IT 26787-65-5  
RL: USES (Uses)  
(waterproofing ~~compns.~~ with hexanediol reaction  
products with titanium tetrabutylate and paraffin wax)  
RN 26787-65-5 HCAPLUS  
CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



# 10/538,024-362669-EIC SEARCH



- CC 45 (Fats and Waxes)
- ST water repellent paraffinic solid; paraffinic solid water repellent; titanium alkoxides paraffin mixts; aluminum alkoxides paraffin mixts
- IT Waterproofing  
(agents for, from alcoholate reaction products with glycols mixed with montanic acid-glycol monoesters and paraffin wax)
- IT Paraffin wax, uses and miscellaneous  
RL: USES (Uses)  
(water-repellent compns. from, containing alcoholate reaction products with glycols and montanic acid-glycol monoesters)
- IT Textiles  
(waterproofing of, isopropyl alc. salt reaction products with glycols mixed with glycol esters and paraffin wax for)
- IT 546-68-9  
RL: USES (Uses)  
(reaction products with aluminum isopropylate and methylpentanediol, waterproofing compns. with paraffin wax)
- IT 26787-63-3  
RL: USES (Uses)  
(reaction products with aluminum isopropylate and titanium tetraisopropylate, waterproofing compns. with paraffin wax)
- IT 94-96-2, Octylene glycol  
RL: USES (Uses)  
(reaction products with aluminum sec-butylate, waterproofing compns. with montanic acid ester and paraffin wax)
- IT 5593-70-4  
RL: USES (Uses)  
(reaction products with hexanediol, waterproofing compns. with octacosanoic acid ester and paraffin wax)
- IT 555-31-7  
RL: USES (Uses)  
(reaction products with methylpentanediol and titanium tetraisopropylate, waterproofing compns. with paraffin wax)
- IT 3085-30-1  
RL: USES (Uses)  
(reaction products with octylene glycol, waterproofing compns. with montanic acid ester and paraffin wax)
- IT 629-11-8  
RL: USES (Uses)  
(reaction products with titanium tetrabutylate, waterproofing compns. with montanic acid ester and paraffin wax)
- IT 26787-64-4  
RL: USES (Uses)  
(waterproofing compns. with alcoholate reaction products with glycols and paraffin wax)
- IT 26787-65-5

# 10/538,024-362669-EIC SEARCH

RL: USES (Uses)  
(waterproofing ~~compos.~~ with hexanediol reaction  
products with titanium tetrabutylate and paraffin wax)

L40 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN

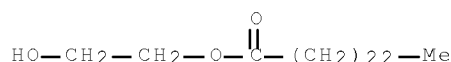
ACCESSION NUMBER: 1957:39061 HCAPLUS Full-text  
DOCUMENT NUMBER: 51:39061  
ORIGINAL REFERENCE NO.: 51:7297h-i  
TITLE: Synthesis of esters of lignoceric alcohol and  
lignoceric acid  
AUTHOR(S): Khaletskii, A. M.; Gorskaya, N. M.  
CORPORATE SOURCE: Chem. Pharm. Inst., Leningrad  
SOURCE: Zhurnal Obshchei Khimii (1956), 26,  
2765-7  
CODEN: ZOKHA4; ISSN: 0044-460X  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
ED Entered STN: 22 Apr 2001

AB cf. C.A. 49, 6288c. Heating 1 mole lignoceric alc. with 4 moles carboxylic  
acid in the presence of 2 moles H<sub>2</sub>SO<sub>4</sub> 10 hrs. gave the following lignoceryl  
esters: oleate, m. 44-8°; oxalate, m. 81-2°; malonate, m. 80-1°; and adipate,  
m. 79-80°. The alc. and Ac<sub>2</sub>O gave the acetate, m. 55-7°, while HCO<sub>2</sub>Na and the  
alc. with NaHSO<sub>4</sub> gave the formate, m. 57-9°. Lignoceric acid and 4 moles  
(CH<sub>2</sub>OH)<sub>2</sub> in 10 hrs. at 180° gave the ethylene dilignocerate, m. 74-6° (from  
Me<sub>2</sub>CO), m. 79-81° (from CHCl<sub>3</sub>); similarly, glycerol gave the glyceryl  
trilignocerate, m. 73-5° (from Me<sub>2</sub>CO), m. 63-7° (from CHCl<sub>3</sub>).

IT 103048-83-5  
(Derived from data in the 6th Collective Formula Index  
(1957-1961))

RN 103048-83-5 HCAPLUS

CN Tetracosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



CC 10 (Organic Chemistry)

IT 822-29-7 77899-05-9 103048-83-5  
(Derived from data in the 6th Collective Formula Index  
(1957-1961))

L40 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1957:39060 HCAPLUS Full-text  
DOCUMENT NUMBER: 51:39060  
ORIGINAL REFERENCE NO.: 51:7297g-h  
TITLE: Separation and identification of fatty acids.  
XXI. Paper chromatography of fatty acids as  
their p-bromophenacyl ester derivatives  
AUTHOR(S): Inoue, Yoshiyuki; Hirayama, Osamu; Noda,  
Manjiro  
CORPORATE SOURCE: Kyoto Univ.  
SOURCE: Bulletin of the Agricultural Chemical Society  
of Japan (1956), 20, 200-5  
CODEN: BACOAV; ISSN: 0375-8397  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
ED Entered STN: 22 Apr 2001

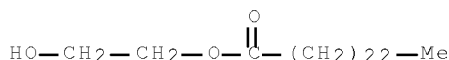
# 10/538,024-362669-EIC SEARCH

AB Aliphatic acids were separated by paper chromatography as their p-bromophenacyl ester 2,4-dinitrophenylhydrazones and their Hg(OAc)<sub>2</sub> addition compds. Petroleum hydrocarbon (b. 140-170°) was used as the stationary solvent and MeOH-HOAc-petroleum hydrocarbon as the moving solvent. Even number C saturated acids from C<sub>4</sub>-C<sub>22</sub>, even number C monoolefinic acids from C<sub>10</sub>-C<sub>22</sub> and the C<sub>18</sub> series from stearic to linolenic were well separated. Paper impregnated with Decalin and olive oil was also used for the separation.

IT 103048-83-5  
(Derived from data in the 6th Collective Formula Index (1957-1961))

RN 103048-83-5 HCAPLUS

CN Tetracosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



CC 10 (Organic Chemistry)

IT 822-29-7 77899-05-9 103048-83-5  
(Derived from data in the 6th Collective Formula Index (1957-1961))

L40 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1952:50518 HCAPLUS

DOCUMENT NUMBER: 46:50518

ORIGINAL REFERENCE NO.: 46:8398c-d

TITLE: Wax compound

INVENTOR(S): Trusler, Ralf B.

PATENT ASSIGNEE(S): Davies-Young Soap Co.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2596829		19520513	US 1949-95562	1949 0526

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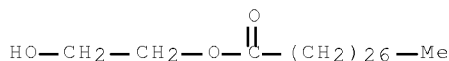
ED Entered STN: 22 Apr 2001

AB A wax to be sprayed consists of 4-6% montanic acid ester of ethylene glycol and a petroleum solvent with a flash point between 50-90°. For airplane use the ratio is 4 lb. wax to 100 lb. solvent with 12.5% of the wax being in solution and the balance in ~~suspension~~. For automobile use the ratio is 2% wax to 98% solvent with 20% of the wax being in solution and the balance in ~~suspension~~.

IT 26787-65-5, Ethylene glycol, montanic acid ester of  
(sprayable coatings from)

RN 26787-65-5 HCAPLUS

CN Octacosanoic acid, 2-hydroxyethyl ester (CA INDEX NAME)



## 10/538,024-362669-EIC SEARCH

IPCR C09G0001-08 [I,A]

NCL 106/010.000; 106/013.000; 106/271.000; 106/272.000

CC 27 (Fats, Fatty Oils, Waxes, and Detergents)

IT 26787-65-S, Ethylene glycol, montanic acid ester of  
26787-65-S, Montanic acid, ethylene glycol ester of  
(sprayable coatings from)

## 10/538,024-362669-EIC SEARCH

### FULL SEARCH HISTORY

=> d his nofile

(FILE 'HOME' ENTERED AT 15:36:23 ON 29 APR 2011)

FILE 'HCAPLUS' ENTERED AT 15:37:02 ON 29 APR 2011

E US20070167549/PN

L1 1 SEA SPE=ON ABB=ON PLU=ON US20070167549/PN  
D ALL  
SEL RN

FILE 'REGISTRY' ENTERED AT 15:37:40 ON 29 APR 2011

L2 2 SEA SPE=ON ABB=ON PLU=ON (102-71-6/BI OR 709654-78-4  
/BI)  
D SCA

FILE 'LREGISTRY' ENTERED AT 15:38:12 ON 29 APR 2011

L3 STR

FILE 'REGISTRY' ENTERED AT 15:46:14 ON 29 APR 2011

L4 1 SEA SSS SAM L3  
D SCA

FILE 'LREGISTRY' ENTERED AT 15:46:56 ON 29 APR 2011

L5 STR L3

FILE 'REGISTRY' ENTERED AT 15:47:21 ON 29 APR 2011

L6 0 SEA SSS SAM L5  
D QUE STAT  
D QUE STAT L4

L7 28 SEA SSS FUL L3

L8 1 SEA SPE=ON ABB=ON PLU=ON L2 AND L7  
D SCA  
SAV TEMP L7 HAM024REG/A  
D SCA L7

L9 13 SEA SPE=ON ABB=ON PLU=ON L7 AND PMS/CI

L10 15 SEA SPE=ON ABB=ON PLU=ON L7 NOT L9  
D QUE

L11 11 SEA SPE=ON ABB=ON PLU=ON L10 AND 3/O

L12 4 SEA SPE=ON ABB=ON PLU=ON L10 NOT L11  
D SCA  
D SCA L11

FILE 'STNGUIDE' ENTERED AT 15:54:35 ON 29 APR 2011

FILE 'REGISTRY' ENTERED AT 15:56:01 ON 29 APR 2011

SAV TEMP L11 HAM024REGA/A

FILE 'HCAPLUS' ENTERED AT 15:56:25 ON 29 APR 2011

L13 22 SEA SPE=ON ABB=ON PLU=ON L11

L14 1 SEA SPE=ON ABB=ON PLU=ON L1 AND L13  
D SCA  
DEL SEL  
SEL L14 AU

L15 27 SEA SPE=ON ABB=ON PLU=ON ("BORNEMANN, STEFFEN"/AU  
OR "JOERRES, VOLKER"/AU OR "VOGES, MICHAEL"/AU)

FILE 'ZCAPLUS' ENTERED AT 15:57:22 ON 29 APR 2011

L16 QUE SPE=ON ABB=ON PLU=ON BORNEMANN S?/AU

# 10/538,024-362669-EIC SEARCH

L17 QUE SPE=ON ABB=ON PLU=ON JOERRES V?/AU  
L18 QUE SPE=ON ABB=ON PLU=ON VOGES M?/AU

FILE 'HCAPLUS' ENTERED AT 15:58:18 ON 29 APR 2011

FILE 'ZCAPLUS' ENTERED AT 15:58:51 ON 29 APR 2011

L19 QUE SPE=ON ABB=ON PLU=ON L16 AND L17 AND L18

FILE 'HCAPLUS' ENTERED AT 15:59:13 ON 29 APR 2011

L20 1 SEA SPE=ON ABB=ON PLU=ON L16 AND L17 AND L18

D SCA

DEL SEL

SEL L20 PA

L21 20 SEA SPE=ON ABB=ON PLU=ON "COROVIN GMBH GERMANY"/PA

L22 2 SEA SPE=ON ABB=ON PLU=ON ((L15 OR L16 OR L17 OR L18  
OR L19)) AND L21

D SCA

L23 2 SEA SPE=ON ABB=ON PLU=ON L13 AND ((L15 OR L16 OR  
L17 OR L18 OR L19 OR L20 OR L21 OR L22))

L24 3 SEA SPE=ON ABB=ON PLU=ON (L22 OR L23)

D SCA

SAV TEMP L24 HAM024HCPIN/A

L25 20 SEA SPE=ON ABB=ON PLU=ON L13 NOT L24

L26 QUE SPE=ON ABB=ON PLU=ON PY=<2003 NOT P/DT

L27 QUE SPE=ON ABB=ON PLU=ON (PY=<2003 OR PRY=<2003 OR  
AY=<2003 OR MY=<2003 OR REVIEW/DT) AND P/DT

L28 17 SEA SPE=ON ABB=ON PLU=ON L25 AND (L26 OR L27)

L29 QUE SPE=ON ABB=ON PLU=ON MIX? OR MIXT# OR MIXTURE?  
OR BLEND? OR ADMIX? OR COMMIX?

L30 QUE SPE=ON ABB=ON PLU=ON IMMIX? OR INTERMIX? OR  
DOPE# OR DOPING# OR DOPANT# OR IMPREGNAT? OR COMPOSIT?  
OR COMPN#

L31 QUE SPE=ON ABB=ON PLU=ON COMPSN# OR FORMULAT? OR  
COMBINAT? OR INTERSPER? OR SUSPEN? OR DISPERS? OR  
EMULS?

L32 15 SEA SPE=ON ABB=ON PLU=ON L28 AND ((L29 OR L30 OR  
L31))

L33 8 SEA SPE=ON ABB=ON PLU=ON L28 AND ?POLYM?

L34 16 SEA SPE=ON ABB=ON PLU=ON L32 OR L33

L35 QUE SPE=ON ABB=ON PLU=ON ADDITIVE? OR RETARDER? OR  
IMPROVER? OR STABILIZER? OR STABILISER? OR INHIBITOR?  
OR MODIFIER? OR ACTIVATOR? OR DEACTIVATOR? OR APPRECIAT  
OR? OR BOOSTER? OR SUPPRESSOR? OR SCAVENGER? OR  
ENHANCER? OR ACCELERAT!R? OR ACCELERANT? OR AGENT? OR  
PROMOT!R?

L36 QUE SPE=ON ABB=ON PLU=ON MELT?

L37 QUE SPE=ON ABB=ON PLU=ON L36 (3A) L35

L38 1 SEA SPE=ON ABB=ON PLU=ON L28 AND L37

D KWIC

D SCA

L39 1 SEA SPE=ON ABB=ON PLU=ON L38 AND (L35 OR L36)

L40 17 SEA SPE=ON ABB=ON PLU=ON L28 OR (L32 OR L33 OR L34)  
OR L38 OR L39

SAV TEMP L40 HAM024HCP/A

L41 0 SEA SPE=ON ABB=ON PLU=ON L24 AND ?POLYM?

L42 2 SEA SPE=ON ABB=ON PLU=ON L24 AND ((L29 OR L30 OR  
L31) AND (L35 OR L36 OR L37))

D SCA

L43 3 SEA SPE=ON ABB=ON PLU=ON L24 OR L42

SAV TEMP L43 HAM024HCPIN/A

## 10/538,024-362669-EIC SEARCH

D QUE L43  
D L43 1-3 IBIB ED ABS HITSTR HITIND RE  
D QUE L40  
D L40 1-17 IBIB ED ABS HITSTR HITIND RETABLE